

KELOV, D.

Solar radiation in desert pastures and its effect on the organism
of sheep and lambs. Izv. AN Turk. SSR. Ser. biol. nauk no.5:60-67
'61. (MIRA 14:12)

1. Institut zhivotnovodstva Ministerstva sel'skogo khozyaystva Turkmenskoy
SSR. (HEAT---PHYSIOLOGICAL EFFECT) (KARA KUM---SHEEP)

OREKHOV, M.D., nauchnyy sotrudnik; KELOV, D.N., nauchnyy sotrudnik

Epizootology of Anoplocephalata infestations of goats and sheep.
Veterinariia 35 no.5:65-66 My '58. (MIRA 12:1)

1. Turkmenskiy nauchno-issledovatel'skiy institut zhivotnovodstva
i veterinarii.
(Tapeworms)

ACC NR: AP7007041

SOURCE CODE: UR/0202/66/000/004/0016/0022

AUTHOR: Korolev, F. A.; Odintsov, A. I.; Kelov, K.

ORG: Physico-Technical Institute, AN TurkSSR (Fiziko-tehnicheskoy institut AN TurkSSR)

TITLE: Influence of resonator misalignment on the output power of a neon-helium laser

SOURCE: AN TurkSSR. Izvestiya. Seriya fiziko-tehnicheskikh, khimicheskikh, i geologicheskikh nauk, no. 4, 1966, 16-22

TOPIC TAGS: gas laser, laser R and D

SUB CODE: 20

ABSTRACT: An investigation of the extent to which disruption of ideal alignment of a laser resonator mirror system influences the properties, primarily the output power, of the oscillation. A neon-helium laser generating in the visible light at 6328A was investigated. The experimental setup consisted of a laser, a device for measuring small inclination angles of the mirror, a vacuum system and a power supply. The discharge tube of the laser was 4 millimeters in diameter and 88 centimeters long. The generator power as a function of inclination of one of the mirrors was investigated with various lengths of laser resonator. The least length was 133 centimeters. It was determined that the requirements for alignment of mirrors in a laser with spherical mirrors varies considerably. In the case of generation of many transverse types of oscillation, considerable (up to 3 minutes of arc) misalignment of the mirrors can be tolerated. In other cases, the maximum tolerable misalignment may be less than one minute. The limiting angle decreases with decreasing generator power and with

Card 1/2

UDC: 621.375.9:535

0928 0441

ACC NR: AP7007041

increasing resonator length. Misalignment is much more critical in a resonator with plane parallel mirrors. Orig. art. has: 5 figures and 6 formulas. [JPRS: 38,330]

Card 2/2

D. KELPAC

"Growing time mensuration." p. 37. (SUMARSKI LIST, Vol. 77, no. 1, Jan. 1953, Zagreb, Yugoslavia)

SO: Monthly List of the East European Accessions, L. G., Vol. 2, No. 7, July 1953, Uncl.

KELPATSKIIY, B.I., dotsent; ZYABKINA, N.T.

Changes in the peripheral blood during osteosynthesis with metal
mils. Trudy LSGMI 59:84-92 '60. (MIRA 14:9)

1. Klinika obshchey khirurgii Leningradskogo sanitarno-gigiyeniche-
skogo meditsinskogo instituta (zav. klinikoy - prof. I.M.Tal'man):
(INTERNAL FIXATION IN FRACTURES) (BLOOD)

CEKULINA, A.; LASIS, A.; SKARDS, V.; TILAKS, S.; INTAITIS, E.;
KELPIS, E.; SALMANIS, A.; REINIKOVS, I.; KARKLINS, J.;
ABOLINS, J.; KULA, P.; TIMSANS, S.; JESPERIS, J.;
~~FRUITS, R.~~; KLAVINS, E., ~~res.~~

[Overall mechanization of dairy farms] Piena lopu farmu
kompleksa mehanizacija. Riga, Latvijas Valsts izdev-
nieciba, 1964. 309 p. [In Latvian] (MIRA 18:7)

SODOMKA, L.; KELPRLIK, A.

Preparation and properties of transparent conducting layers on glass. Jemna mech opt 8 no.2:43-46 F '63.

1. Vysoka skola strojni a textilni, Liberec.

USSR / Cultivated Plants. Medicinal. Essential
Oils. Toxins.

M-7

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25235

Author : ~~Kelpsaite, L.~~
Inst : Kauno Medical Institute
Title : The Dynamics of Glycoside Accumulation During the
Vegetative Period in the Leaves of Annual, Biennial
and Perennial Digitalis Plants

Orig Pub: Kauno med. inst. Darbai, Tr. Kaunnassk. med. in-ta,
1957, 4, 215-222 (Lithuanian; res. Russ.)

Abstract: It was established by two years of experimentation
that during cultivation at the Botanical Garden of
the Lithuanian SSR a quantity of glycosides accu-
mulated in the leaves of Digitalis lanata Ehrh.,
having ~266, of D. purpurea L. ~100, in D. ambigua
Murr. and D. lutea L. ~66 frog units of activity

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USSR / Cultivated Plants. Medicinal. Essential
Oils. Toxins.

M-7

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721510016-8"

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25235

Abstract: per 1 g. of dry leaves. The amount of glycosides
in the leaves of annual plants grows during the
vegetation period, and reaches a maximum in Septem-
ber. It drops in November. In the leaves of bi-
ennial and perennial plants the quantity of glyco-
sides is greatest at the end of May and beginning
of June, during and after flowering this is reduced.
The glycoside content in the stem leaves of the bi-
ennial and perennial foxglove plants after flowering
do not meet the standards of the State pharmacopoeia
number eight. The biennial and perennial plants of
D. ambigua and D. lutea have a leaf glycoside con-
tent that corresponds to the requirements of the
State pharmacopoeia during the whole course of
vegetation, and the D. lanata exceeds the require-

Card 2/3

USSR / Cultivated Plants. Medicinal. Essential
Oils. Toxins.

M-7

L 23879-66 EWI(d)/EWI(m)/EWP(w)/EWP(v)/EWP(k)/EWP(h)/EWP(l)/EWA(h)/ETC(m)-6
 ACC NR: AP6009929 (A) SOURCE CODE: UR/0413/66/000/004/0124/0124

IJP(c) WW/EM

AUTHOR: Kel'shman, Ye. A.; Kozlov, A. I.; Leonov, N. N.; Shtender, I. G.; Andryakov, V. M.

ORG: none

TITLE: A device for fastening an element inside a shell in a gas stream. Class 47,
 No. 179143

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 124

TOPIC TAGS: gas flow, aerodynamic drag

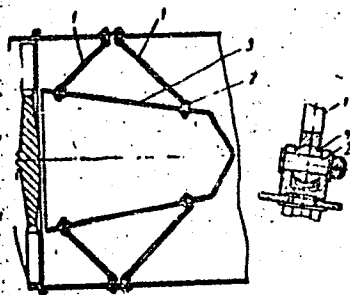
ABSTRACT: This Author's Certificate introduces a device containing braces for fastening an element inside a shell in a gas stream. Hydraulic drag is reduced and the reliability of the fastening is improved by installing the braces at an angle to the axis of the shell and by using ball-and-socket hinges for fastening the braces to the inside surface of the shell and to the element.

UDC: 621.646.9.002.73

Card 1/2

L 23879-66

ACC NR: AP6009929



1--braces; 2--axis of the shell; 3--element; 4--ball-and-socket hinges.

SUB CODE: 20/

SUBM DATE: 30May64/

ORIG REF: 000/

OTH REF: 000

Card 2/2 dda

YAZIK, A.V.; KEL'SHTEYN, D.M.

Results of testing the TK-4 turbocompressor on a stand without an engine. Trakt. i sel'khoz mash. 32 no.7:7-9 J1 '62. (MIRA 15:7)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina.
(Compressors—Testing)

YAZIK, A.V., inzh.; KEL'SHTEYN, D.M., inzh.

Studying the TKR-14-2 turbocompressor. Trakt. i sel'khoz mash. 33
no.8:12-14 Ag '63. (MIRA 16:11)

1. Khar'kovskiy politekhnicheskii institut imeni Lenina.

each, V. S. (Candidate of technical sciences)

turbine efficiency by 17-25% from $\approx 67\%$ maximum). It was found that adding

streamlined (1.5 mm thick with streamlined

side by 2.5% and increased the

L 24003-66 EWP(f)/T-2/ETC(m)-6 WW

ACC NR: AP6009925

(N)

SOURCE CODE: UR/0413/66/000/004/0119/0119

AUTHOR: Grodziyevskiy, V. I.; Kel'shteyn, D. M.; Puchkov, A. I.

ORG: none

TITLE: A guide vane assembly for a radial centripetal turbine. Class 46, No. 179128

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 119

TOPIC TAGS: centripetal flow turbine, guide vane, gas turbine

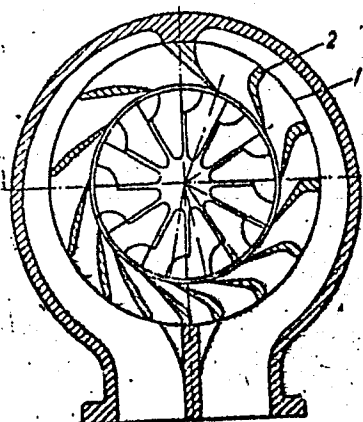
ABSTRACT: This Author's Certificate introduces a guide vane assembly for a radial centripetal turbine with guide vanes which vary in profile. The stream of gases at the outlet is equalized by mounting the vanes with variable spacing which gradually increases along the path of the gas stream.

UDC: 621.438—155—226.31

Card 1/2

L 24003-66

ACC NR: AP6009925



1--guide vane assembly; 2--guide vanes

SUB CODE: 21/

SUBM DATE: 09Feb65/

ORIG REF: 000/

OTH REF: 000

Card 2/2

KELSHTEYN, L. V.

"Effect Of Minute Deficiencies And Duplications On The Individual Development Of *Drosophila* *Melanogaster*. Sector Of The Theory Of Evolution And Genetics Chief: I. M. Polyakov), Zoological Institute (Director: A. V. Nagornii), Kharkov." (p. 1145) by Kelshteyn, L. V.

SO: PREDECESSOR OF JOURNAL OF GENERAL BIOLOGY. (Biologicheskii Zhurnal) Vol. VII 1938, Nos. 5-6

KEL'SHTEYN, L. V.

USSR/Medicine - Mosquitoes (Cont'd) 11 Jan 1948
 causes characteristics of the chromosome center and
 characteristics of heterochromatization of the chro-
 some. Submitted by Academician I. I. Smal'gauzen,
 13 Oct 1947.

Salivary glands of Anopheles Maculipennis Measeae
 larvae in the fourth phase (just before becoming
 chrysalis) from vicinity of Khar'kov used for study.
 One in series of studies to solve number of problems
 in general cytology, particularly the question of
 causes and regularities of heterochromatization. Dis-
 42753

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 2
 "Structural Features of Giant Chromosomes of the Sal-
 ivary Glands of Larvae Anopheles Maculipennis Measeae,"
 L. V. Kel'shteyn, Kharkov State U
 N. V. Dubovskiy, 4 pp
 Issued A. M. Gor'kiy, 4 pp

11 Jan 1948

KEL'SHTEYN, L.V.

I.I. Mechnikov. "Academic collection of works." Vol. 4: Articles
on problems of evolutionary theory. Reviewed by L.V. Kel'shtein.
Vest. AMN SSSR 16 no. 7: 92-94 '61. (MIRA 14:7)
(EVOLUTION)

KEL'SHTEYN, L.V., dotsent; RAKHMANOVA, A.M., dotsent

Diffusion of intestinal Protozoa in kindergarten children in
Semipalatinsk. Zdrav. Kazakh. 21 no.2:32-34 '61. (MIRA 14:3)

1. Iz kafedry biologii (zav. - professor Ye.A.Finkel'shteyn)
i kafedry propedevtiki vnutrennikh bolezney (zav. - dotsent A.M.
Rakhmanova) Semipalatinskogo meditsinskogo instituta.
(SEMIPALATINSK-CHILDREN-DISEASES)
(PROTOZOA, PATHOGENIC)

RAKHMANOVA, A.M.; KEL'SHTEYN, L.V.

Distribution of intestinal protozoa among children of nursery school
age in the city of Semipalatinsk. Trudy Semipal. med. inst. 2:295-
301 '59. (MIRA 1514)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav.kafedroy
dotsent A.M.Rakhmanov) i kafedry biologii (zav.kafedroy prof.
Ye.A.Finkel'shteyn) Semipalatinskogo gosudarstvennogo meditsin-
skogo instituta.

(INTESTINES--MICROBIOLOGY) (SEMPALATINSK--CHILDREN--DISEASES)

KUL'SHTEYN, L.Ya., sanitary vrach

Experience in sanitary supervision in designing and operating
a swimming pool. Gig.1 san. 25 no.2:55-59 P '60. (MIRA 13:6)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(SWIMMING POOLS)

KEL'SHTEYN, L.Ya.; ANTONOV, A.G.; SHAMTSIYAN, G.G.

Hygienic evaluation of results obtained with a ventilation unit
for schools. Gig.i san. 26 no.3:39-45 Mr '61. (MIRA 14:7)

1. Iz Moskovskogo gorodskoy sanitarno-epidemiologicheskoy stantsii
i Instituta sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury
SSSR.

(SCHOOLHOUSES—HEATING AND VENTILATION)

KEL'SHTEYN, L.Ya., vrach

Air in class. Zdorov'e 8 no.3:10-11 Mr '62. (MIRA 15:4)
(SCHOOL HYGIENE) (SCHOOLHOUSES--HEATING AND VENTILATION)

28(3); 18(3)

SOV/28-59-4-17/19

AUTHOR: Kel'skiy, P., Engineer

TITLE: The Standardization of Steel Scrap (Standartizatsiya stal'nogo loma. The Experience of the Normalization Committee of Poland (Iz opyta raboty Pol'skogo Komiteta normalizatsii)

PERIODICAL: Standartizatsiya, 1959, Nr 4, pp 37-41 (USSR)

ABSTRACT: The article contains general considerations on the various additives and impurities occurring in steel scrap used in steel production, and the problems and hazards they cause. Comments are made on the existing Polish scrap standards, and the draft for a new scrap standard which has been submitted to the Normalization Committee. This draft (table 3) subdivides all steel scrap into 35 groups, and permits three different accuracy classifications. There are 3 tables.

Card 1/1

KEL'SHTEYN, L.Ya., sanitarnyy vrach; KHROMCHENKO, M.S., sanitarnyy vrach

Pleasant, useful, hygienic. Zdorov'ie 6 no.10:24 0 '60.
(MIRA 13:9)

(SWIMMING POOLS)

KEISYSH, L.V.

Effect of ultrasound on the electron spectrum of a crystal.
Fiz. tver. tela 4 no.8:2265-2267 Ag '62. (MIRA 15:11)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR, Moskva.
(Ultrasonic waves) (Electrons--Spectra) (Crystals)

KELTAI, Arpad

The RIV (~~Regolamento Internazionale Veicoli~~ [International Society for Freight Cars]) will hold its May meeting in Budapest. Vasut 12 no.4:24 25 Ap '62.

KELTAI, Arpad

Construction of the "way of the migration of birds" railroad
line. Kozleked Kozl 20 nr. 2322-24 12 Ja'64

KELTAI, Arpad

The January session of the Technical Commission of the International Railway Union will be held in Budapest. Vasut 12 no.12:5 D '62.

KELTAL, Arpad

Striking figures, new terms in railroad development. Vasut 14 no.8:
26-29 Ag '64.

KELTAI, Arpad

Report on the Budapest conference of the International
Union of Railways. Vasut 14 no.11:7-8 N '64.

KELTAI, Arpad

Development of pneumatic-tube transportation. Kozleked kowl 20 no.
31:523-525 2 Ag '64.

KELTAI, Arpad

Economical aspects of railroad timetables. Kozleked kozel
20 no.52:866-867 27 D '64.

1. Head, International Division of the Department of Railways
in the Ministry of Transportation and Postal Affairs, Budapest.

KELTAI, Geza, okleveles villamosmérnök

Electric motors. Szabványi közl 16 no.7:125 J1 '64.

1. Hungarian Bureau of Standards, Budapest.

KELTAI, Pal, dr.

On surgical problems in portal hypertension. Magy. sebesz. 15 no.2:
98-99 My '62.

(HYPERTENSION PORTAL surg)

KELTAI, Pal, dr.

Significance of anamnestic thrombosis in a surgical case. Magyar
sebesz. 17 no.4:227-230 Ag '64.

1. A Budapesti Orvostudományi Egyetem I sz. Sebészeti Klinikája.
(Igazgató: Rubanyi Pal dr. egyetemi tanár).

KEL'TAYEV, T., student V kursa.

The origin of the escarpment of the Ust'-Urt Plateau. Sbor.
stud.rab. SAGU no.8:17-20 '54. (MLRA 9:5)
(Ust'-Urt Plateau--Physical geography)

KEL'TSEV, N.

Molecular sieves. Gaz.prom. no.9:38-39 S '57. (MIRA 10:10)
(United States--Adsorbents)

KEL'TSEV, N.

Use of liquefied gases in Denmark and Belgium. Gaz.prom. 4
no.10:48-51 0 '59. (MIRA 13:2)

1. Po materialam zagranichnoy komandirovki v maye 1959 g.
(Denmark--Liquefied petroleum gas)
(Belgium--Liquefied petroleum gas)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721510016-8

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721510016-8"

KEL'TSEV, N. V.

"Investigation of a Continuous Process of Extraction of a Propane-Butane Fraction and Gasoline From Lean Natural Gases in a Moving Layer of Adsorbent."
Sub 18 Jun 51, Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleev

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 4⁰⁰, 9 May 55

KALITSEV, N. V.

USSR/Chemistry - Adsorption

1 Jan 52

"Adsorption Equilibrium of a Propane-Butane Mixture on Activated Carbon," A. B. Chernyshev, *Corr Mem Acad Sci USSR*, N.V. Kalitsev, and A. I. Khalif, Moscow Chemicotechnological Inst named D. I. Mendeleev

Dokl Akad Nauk SSSR, Vol 82, No 1, pp 75-77

A study was made of the adsorption possibility of a propane-butane mixt by means of selective adsorption using activated carbon.

REL'TSEV, N. V.

232T13

USSR/Chemistry - Fuels

1 Jun 52

"Separation of a Propane - Butane Mixture With a Moving Layer of Adsorbent," A. B. Chernyshev, Corr Mem, Acad of Sci USSR, N. V. Kel'tsev, A. L. Khalif

"Dok Ak Nauk SSSR" Vol 84, No 4, pp 757-760

A chromatographic method for the sepn of a propane - butane mixt followed by desorption by means of electric heating was worked out and formulated mathematically. The procedure involves use of a moving layer of adsorbent (activated carbon) in an adsorption column. The deg of sepn is 98-99%.

232T13

KEL'TSEV, N. V., and Khalif, A. I.

"Investigation of the Specific Surface of Adsorbents by Propane Adsorption"
Tr. Vses. ~~XX~~ Neftegazovo N. -I. In-ta, No 5, 1954, 208-212

Proposes using technical grade propane containing up to 4 per cent admixtures of other homologs to estimate the specific surface of adsorbents. The specific surface is calculated from mean threshold value which is occupied by a "conventional molecule" of propane. Comparison of results obtained by using this method with results obtained by using nitrogen adsorption isotherms at -197.5° show a discrepancy of less than 10 percent with silica gel. (RZhKhim, No 2, 1955)

S

SO: Sum-No 787, 12 Jan 56

"APPROVED FOR RELEASE: 06/13/2000

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CIA-RDP86-00513R000721510016-8"

KEl'TSEV, N.V.

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5580

Author: Kel'tsev, N. V.

Institution: None

Title: Determination of the Amount of Hydrocarbons and Moisture Adsorbed by Activated Charcoal

Original

Publication: Gazovaya prom-st', 1956, No 6, 34-35

Abstract: Diagram of a laboratory unit and description of a method for the determination of the amount of hydrocarbons and moisture adsorbed by activated charcoal. Verification of the method by saturating a weighed sample of charcoal with a known amount of gasoline and propane, from hydrocarbon-air mixtures, and water, followed by their desorption, has shown that the differences between the amounts of hydrocarbons or water, expended to saturate the coal and their amounts recovered after desorption do not exceed 5%.

Card 1/1

KEL'TSEV, N. V.

USSR/Chemical Technology. Chemical Products and Their I-14
Application--Treatment of natural gases and
petroleum. Motor fuels. Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9286

Author : Kel'tsev, N. V.

Inst : Not given

Title : The Separation of Hydrocarbons at Varying Degrees
of Saturation

Orig Pub: Khimiya i tekhnol. topliva, 1956, No 6, 38-43

Abstract: The chromatographic method using a moving adsor-
bent bed has found wide application in the
separation of gaseous hydrocarbons (GH) having
equal numbers of C atoms but differing in degree
of saturation. The separation of mixtures of
saturated and unsaturated GH on a moving bed of
activated finely porous ACM silica gel produced
at the Voskresensk plant has been investigated in
laboratory apparatus. The mixture was fed into

Card 1/3

HEL'tsev, N.V.

USSR/Processes and Equipment for Chemical Industries -
Processes and Apparatus for Chemical Technology

K-1

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33271

Author : Kel'tsev, N.V.

Inst :

Title : Drying of a Gas in a Moving Layer of Adsorbent.

Orig Pub : Gaz. prom-st', 1956, No 11, 32-36

Abstract : Investigation of the method of drying air (A) in a moving layer of silica-gel (S) of different brands. The A saturated with moisture was passed through the layer of S, which was maintained in suspended state and flowed continuously from the adsorber to the desorber, where it was regenerated by heating at 200-240° with a concurrent blowing with A. It was found that even at a rate of $V = 1/4$ liter/cm² minute a drying of the gas to a moisture content corresponding to a dew point of - 50° can be achieved for prolonged periods. S of particle size of 0.2-0.5 mm

Card 1/3

USSR/Processes and Equipment for Chemical Industries.
Processes and Apparatus for Chemical Technology

K-1

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33271

begins to reach a fluidized state at $V = 0.75$ liter/cm² minute, but even at a rate twice as high and with a free space, above the layer, of not less than 40 cm in height, the entrainment of the S can be completely avoided. Suitable for drying are the finely porous varieties of S of brand ASM and MSM. The best results (to a dew point of - 80°) are obtained with Sokolovskiy bauxites, but their moisture holding capacity, at equilibrium, is 10 times less than of S, which results in a 6-10 fold heat expenditure for heating of the adsorbent during its regeneration. It was found that at low operational load, activated charcoal can also be used in a moving layer for the drying (to a dew point of - 60°). Charcoal of AR-3 brand, with a particle size of 0.5-1 mm, begins to reach a fluidized state at $V = 1.3$ liter/cm² minute. Analogous results were obtained on drying of natural gas (99% CH₄).

Card 2/3

From the adsorption equilibrium curve, the q_v value for the
adsorption of CO_2 on CaO was 1.00 g/g.

KEL'TSEV, N.V.

USSR/Chemical Technology - Chemical Products and Their
Application. Treatment of Natural Gases and Petroleum.
Motor and Jet Fuels. Lubricants. I-8

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2547

Author : Kel'tsev, N.V., Khalif, A.L.

Inst : All-Union Scientific Research Institute of Natural Gases.

Title : Investigation of the Process of Carbonizing of the Silicate
Catalyst During the Process of Catalytic Cracking of Hydro-
carbons.

Orig Pub : Tr. Vses. n.-i. in-t prirodn. gazov, 1957, No 1(9), 27-33

Abstract : A study was made of the process of carbonizing of industri-
al silica gel, containing an addition of alumina, during
catalytic cracking of light gasoline of direct distillation
The study procedure was based on investigation of carbon
deposition on the surface of the catalyst, and of the

Card 1/2

Card 2/2

KEL'TSEV, N.Y.

Hydraulic resistance of activated carbon to the passage of gas.
Gaz.prom. no.12:31-35 D '57. (MIRA 11:1)
(Carbon, Activated) (Gas flow)

KEL'TSEV, N.V.; KHALIF, A.L.

Intermittently operating carbon adsorption apparatuses with
horizontal adsorbers. Gaz. prom. no. 7:44-47 J1 '58. (MIRA 11:?)
(Gasoline)

(Gas industry--Equipment and supplies)

ZHUKOVA, Z.A.; KEL'TSEV, N.V.

Adsorption of methane, carbon monoxide, nitrogen, hydrogen,
and their mixtures on activated carbon. Trudy VNIIGAZ no.6:
154-168, 1959 (MIRA 12:10)
(Gases) (Adsorption) (Carbon, Activated)

KEL'TSEV, N.V.

Pressure drop in a gas flowing through a bed of activated carbon.
Trudy VNIIGAZ no.6:169-186 '59. (MIRA 12:10)
(Gas flow) (Carbon, Activated)

KEL'TSEV, N.V.

Analysis of the operation of gasoline recovery plants with horizontal carbon adsorbent columns. Trudy VNIIGAZ no.6:187 '59.
(MIRA 12:10)

(Gas, Natural) (Adsorption) (Gasoline)

GUSHCHIN, V.P.; KEL'TSEV, M.Y.; KHALIF, A.L.

Sound indicator for a flow of adsorbent, catalyst, or other
solid packing in columns. Zav.lab. 25 no.9:11⁴⁰ '59.
(MIRA 13:1)

1. Vnesoyuznyy nauchno-issledovatel'skiy institut prirodnogo
gaza.

(Level indicators)

(Chemical engineering--Equipment and supplies)

KEL'TSEV, N.V.

Adsorption properties of artificial zeolites as related to
hydrocarbons and the isolation of ethylene. Gaz.prom. 5
no.9:49-53 S '60. (MIRA 13:9)
(Ethylene) (Gases) (Zeolites)

S/063/60/005/006/014/014
A051/A026

AUTHORS: Torocheshnikov, N.S., Kel'tsev, N.V., Dzharylkanova, Zh.A.

TITLE: A New Adsorbent for Acetylene

PERIODICAL: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D.I.
Mendeleeva, 1960, No. 6, Vol. 5, pp. 710-712

TEXT: The authors conducted an investigation of acetylene separation from the gaseous mixture formed in the production of acetylene by the partial oxidation of methane from natural gas (Ref. 1-Laslo). They used the following solid sorbents for the purpose in question: activated carbon, silica gel and synthetic zeolites (molecular filters). A special study was made of the adsorption ability, with respect to acetylene, of the 4A and 5A type zeolites, having a pore size of 4 and 5 Å, by comparing them to the action of activated carbon. The A type synthetic zeolites are given as being alkaline aluminosilicate $M_bO \cdot Al_2O_3 \cdot 2SiO_2 \cdot xH_2O$, where M is the cation, b- the valency of the cation, x- the number of H_2O molecules. The aluminosilicates, produced by precipitation in an aqueous solution, crystallize, and separate off from the mother liquor, are dried and calcined to remove the water. These granulated zeolites have pore sizes corresponding to the size of molecules of the

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A New Adsorbent for Acetylene

S/063/60/005/006/014/014
A051/A026

substances being adsorbed, and are, therefore, suitable as molecular filters (Ref. 2-Barrer). The adsorption ability with respect to acetylene of other molecular filters and adsorbents was investigated in a vacuum containing quartzite scales, of the MacBain type (Ref 3-Brunauer). The test was conducted at pressures of 700 mm m.c. and -78, -17, 20, 50 and 80°C, and tests on activated carbon and MCM silica gel - at the same pressures and temperatures, excepting the -78°C. The experimental data are shown in Figs. 1 (5A) and 2 (4A), pointing to the greater advantage of the synthetic zeolites with respect to acetylene adsorption. The table lists the relative activity of the molecular filters in g/100 g of adsorbent, in % to the activity of the SKT carbon, (Table 1). The test results led the authors to recommend the molecular filters for separating acetylene out from not only gases of the oxygen oxidation of methane, but also from gases of air conversion. The experimental data were also processed with equations of the potential theory, changed by M.M. Dubinin, in order to describe the process of gas absorption and that of vapors (Ref. 4-Nikolayev). For gas it is given as: $\epsilon = 2.3 RT \lg \tau^2 \frac{p_{kp}}{p}$ cal/mol (1), $W = a.b \text{ cm}^3/\text{g}$ (2). where ϵ is the adsorption potential, τ - corresponding

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temperature, ($\tau = \frac{T}{T_{Kp}}$), W- the volume of the space adsorbed, cm^3/g , a- the amount of acetylene adsorbed, $\text{g}/100\text{g}$ of the adsorbent, b- the volume of the m-mol of compressed vapor, $\text{cm}^3/\text{m-mol}$. For vapor it is given as:
 $\epsilon = 2.3 RT \lg \frac{P_s}{P}$ cal/mol (3), $W = a \cdot v^* \text{cm}^3/\text{g}$ (4), where v^* , is the volume of the m-mol of liquid in the adsorbed state, in $\text{cm}^3/\text{m-mol}$, P_s - the pressure of the saturated vapor at the experiment temperature. Fig. 3 shows the results of the processing performed. The curve enables one to determine the extent of absorption of the acetylene under the given conditions. There are 3 graphs and 1 table, 4 references: 2 are Soviet, 2 English.

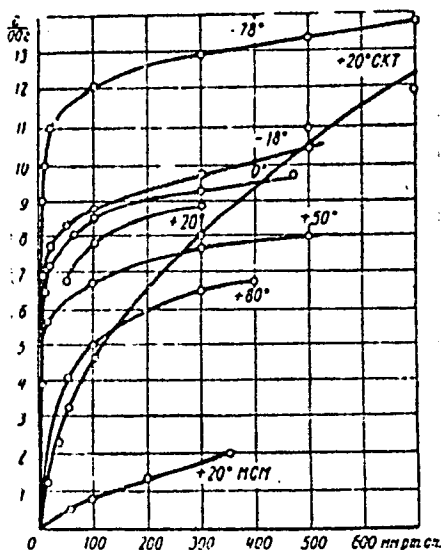
ASSOCIATION: Moskovskiy khimiko-technologicheskii institut im. D.I. Mendeleyeva (The Moscow Institute of Chemical Technology im. D.I. Mendeleyev).

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A New Adsorbent for Acetylene

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Figure 1

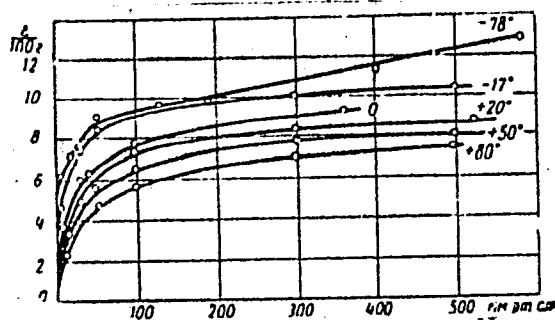


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Figure 2

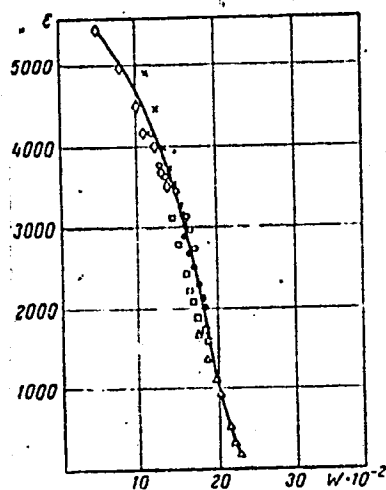


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Figure 3



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A New Adsorbent for Acetylene

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Legend to Table 1:

Relative Adsorption Ability of Molecular Filters and Silica Gek with respect to acetylene, in % to the activity of SKT activated carbon

Adsorbent	Adsorbability in partial pressure of the acetylene 60 mm m.c.						Adsorbability in partial pressure of the acetylene 25 mm m.c.					
	-78°	-17°	0°	20°	50°	80°	-78°	-17°	0°	20°	50°	80°
Activated carbon SKT	100	100	100	100	100	100	100	100	100	100	100	100
Molecular filters 4A	--	131	126	181	342	685	--	173	170	280	480	1200
Molecular filters 5A	--	128	148	180	370	600	--	188	200	310	645	900
Silica gel MCM	--	25	20	19	23	43	--	20	17	15	33	66

Card 7/7

KEL'TSEV, M.V.; (GLOBINA, I.P.; KUCHENIKOV, N.S.

Drying of gas by artificial zeolites. Trudy NII no. 35:145-157
(1971)
(TSA 14:18)

(Gas Drying)
(Zeolites)

S/081/62/000/005/059/112
B156/B108

5.2430
AUTHORS: Kel'tsev, N. V., Zhukova, Z. A.
TITLE: Investigation of the purification of hydrogen in a moving layer of activated coal
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 407, abstract 5K99 (Tr. Vses. n.-i. in-t prirodn. gazov, no. 12, 1961, 143 - 149)

TEXT: The process of adsorptional removal of impurities of CH_4 , CO, and N_2 from H_2 has been investigated; the initial gas passes up a vertical column in the opposite direction to a continuous layer of AG-2(AG-2) and SKT(SKT) activated coal. The height of the adsorption section was 70 cm. The coal was regenerated in the lower part of the column by heating in an electric tube furnace, with purified H_2 simultaneously blown through it. Experiments were made with H_2 - CH_4 mixtures (up to 20% CH_4), and also with ternary (82% H_2 , 15% CO, and 3% CH_4) and quaternary (52.5% H_2 , 36.1% N_2 , Card 1/2

S/081/62/000/005/059/112
B156/B108

Investigation of the purification...

8.7% CO, and 2.7% CH₄) mixtures. It was found possible to obtain hydrogen of a purity of >99.9%. The best adsorbent is the highly active SKT coal, the specific surface area of which is ~1500 m²/g. The ideal conditions for the purification process are: pressure 25 atm, temperature during desorption 200°C, during adsorption the lowest possible, gas flow rate in the adsorption section 1 nl/cm², amount of pure H₂ used for blowing out impurities in the desorption section up to 10% of the total amount of purified gas produced. [Abstracter's note: Complete translation.]

Card 2/2

OF KRYUKOVA, ZH.A.; LEBUNSEV, N.V.; TOROGNECHNIKOV, N.S.

Features of acetylene adsorption on zeolites and problems
involved in its separation. Trudy IZMIRI no.35:158-161
(MIRA 14:10)

(Acetylene)
(Adsorption)

KEL'TSEV, N.V.; STAROVOYTOVA, A.F.

Production of pure isopentane by fractionation on synthetic zeolites.
Gaz.prom. 6 no.8:34-37 '61. (MIRA 14:10)
(Butane) (Zeolites)

S/064/62/000/002/004/006
B101/B144

AUTHORS: Zhukova, Z. A., Kel'tsev, N. V., Ogloblina, I. P.,
Torocheshnikov, N. S.

TITLE: Use of new absorbents for intensive gas drying

PERIODICAL: Khimicheskaya promyshlennost', no. 2, 1962, 24-29

TEXT: Experiments with granulated 4A (4A) and 5A (5A) zeolites for air- and gas drying were conducted. At 20°C and 10 mm Hg, the absorptive power of these zeolite types amounted to 20.8 and 20.6 g/100 g respectively. Investigation of the adsorption isotherms of water vapor at 0-35°C showed: (1) Superiority of the zeolites compared with silica gel and aluminum oxide, (a) owing to greater moisture capacity; (b) owing to lower temperature dependence. Gases may therefore be dried by zeolites without cooling the adsorber. Experiments with an adsorber tube of 1.3 mm diameter, granulation of the zeolites 1-2 mm, depth of layer 62 cm, were conducted with air of known dew point. Results: (1) A dew point of -60 to -65°C was reached for a rate of gas flow of 1.15 l/cm².min and 0.4 l/cm².min in the adsorption layer. (2) Temperature increase from 30 to 80°C reduces

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S/064/62/000/002/004/008
B101/B144

Use of new absorbents for ...

the dynamic activity of the zeolites from 21 g/100 g to 16 g/100 g. A rate of 3 l/cm².min is assumed to be permissible for industrial adsorbers. Experiments with natural gas from the Stavropol' deposit were also conducted at 50°C and 0.5 l/min. A dew point of -60°C was reached. Because of the selective H₂O vapor adsorption by zeolites the other gas components did not affect the adsorption. Even the heavy hydrocarbons do not penetrate the fine structure of the 4A zeolite pores, so that no coke formation sets in during regeneration. 200-350°C is the best regeneration temperature. For regeneration with cold gas, heating in direct flow is preferred: dew point for direct flow down to -80°C, for counter flow only -60 to -65°C. A mixture of 74.2% N₂, 5.7% CO, 6.5% H₂, 6.0% H₂O, and 7.6% CO₂ was also simultaneously dried and purified. H₂O was adsorbed most of all in the first zeolite layer and gradually displaced the CO₂ adsorbed in the following layers, which left the adsorber at a dew point below -45°C. At 12.8 g/cm³ moisture, the dynamic activity of the zeolite amounted to 10 g/100 g related to CO₂, and 11.3 g/100 g related to moisture. There are 8 figures, 2 tables, and 9 references: 7 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: A. L. Kohl, F. C. Riesenfeld, Gas Purification, N. Y., 1960.

Card 2/2

S/065/62/000/004/003/004
E194/E184

AUTHORS: Kel'tsev, N.V., Nazarov, B.G., and Torocheshnikov, N.S.

TITLE: Thorough drying of transformer oil by adsorption

PERIODICAL: Khimiya i tekhnologiya topliv i masel,
no.4, 1962, 21-24

TEXT: Transformer oil requires drying to obtain high electric strength, but existing methods of drying have various disadvantages. Accordingly, laboratory bench tests were made in which transformer oil was dried by passing over a column 200 mm long and 10 mm in diameter of NaA type artificial zeolites at rates of 0.002 and 0.005 m/sec which reduced the water content (measured by the Karl Fischer method) from about 600 to 24 - 30 parts per thousand [Abstractor's note: parts per million is surely intended] and raised the electric strength from 22 to 70 - 100 kV/cm. On the basis of these data the method is recommended for general use.

There are 5 figures and 2 tables.

ASSOCIATION: MKhTI imeni D.I. Mendeleyeva
(MKhTI imeni D.I. Mendeleyev)

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ZHUKOVA, Z.A.; ~~KEL'TSEV, N.V.~~; OGLOBLINA, I.P.; TOROCHESNIKOV, N.S.

Using new sorbents in the advanced-stage dehydration of gases.
(MIRA 15:2)

Khim. prom. no. 2:100-105 F '62.

(Gases--Drying)
(Adsorbents)

KEL'TSEV, N.V.; NAZAROV, B.G.; TOROCHESNIKOV, N.S.

Advanced stage of drying of transformer oils by the adsorption
method. Khim.i tekhn.topl.i masel 7 no.4:21-24 Ap '62.

(MIRA 15:4)

1. Moskovskiy Ordena Lenina khimiko-tekhnologicheskii institut im.
D.I.Mendeleeva.

(Insulating oils)

(Adsorption)

VORONCHIKHINA, M.G.; KEL'TSEV, N.V.; STAROVOYTOVA, A.F.; KHALIF, A.L.

Obtaining solvents from casing-head gasolines. Trudy VNIIGAZ no.12:
159-163 '61. (MIRA 15:1)
. (Gasoline) (Solvents)

...KELTSEV, N. V.

PHASE I BOOK EXPLOITATION

SOV/6246

Soveshchaniye po tseolitam. 1st, Leningrad, 1961.

Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye
(Synthetic Zeolites: Production, Investigation, and Use). Mos-
cow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady)
Errata slip inserted. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh
nauk. Komisiya po tseolitam.

Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor
of Chemical Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P.
Golub'.

PURPOSE: This book is intended for scientists and engineers engaged
in the production of synthetic zeolites (molecular sieves), and
for chemists in general.

Card ~~1/22~~ ~~1/2~~

1/9

Synthetic Zeolites: (Cont.)

SOV/6246

COVERAGE: The book is a collection of reports presented at the First Conference on Zeolites, held in Leningrad 16 through 19 March 1961 at the Leningrad Technological Institute imeni Lensovet, and is purportedly the first monograph on this subject. The reports are grouped into 3 subject areas: 1) theoretical problems of adsorption on various types of zeolites and methods for their investigation, 2) the production of zeolites, and 3) application of zeolites. No personalities are mentioned. References follow individual articles.

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METHODS OF INVESTIGATION

- Dubinin, M. M., Z. A. Zhukova, and N. V. Kel'tsev. Appli-
cability of the Potential Theory to the Adsorption of
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Kel'tsev, N. V., I. P. Ogloblina, and N. S. Torocheshnikov.
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- Kel'tsev, N. V., A. F. Starovoytova, and N. S. Torocheshnikov. The Adsorption Method of Purifying Isopentane From Admixtures of n-Pentane 239
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Synthetic Zeolites: (Cont.)

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Bark, S. Ye., N. V. Kel'tsev, I. P. Ogloblina, N. M.
Sergeyeva, M. I. Skvortsova, and N. S. Torocheshnikov.
The Application of Synthetic Zeolites as Molecular
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AVAILABLE: Library of Congress

SUBJECT: Chemical Engineering

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TOROCHESNIKOV, N.S.; KEL'TSEV, N.V.; MYAKINENKOV, V.I.

Adsorption of monovinylacetylene on zeolites. Zhur.
VKHO 7 no.6:694-695 '62. (MIRA 15:12)

1. Moskovskiy khimiko-tekhnicheskii institut imeni
D.I. Mendeleeva.
(Butenyne) (Zeolites)

SARKIS'YANTS, Gayk Arkad'yevich; BEN'YAMINOVICH, Osip Aleksandrovich;
KEL'TSEV, Vladimir Vladimirovich; KEL'TSEV, Nikolay
Vladimirovich; POLOZKOV, Vladimir Tikhonovich; KHALIF, A.
Al'bert L'vovich; KHODANOVICH, Ivan Yefimovich; RAAHEN, V.N.,
kand. tekhn. nauk, retsenzent; PLETNEV, K.N., inzh., red.; LEVINA,
Ye.S., ved. red.; POLOSINA, A.S., tekhn. red.

[Processing and utilization of gas] Pererabotka i ispol'zovanie
gaza. [By] G.A. Sarkis'iants i dr. Moskva, Gostekhnizdat, 1962.
216 p. (MIRA 16:3)

1. Kafedra gaza Azerbaydzhanskogo ordena Trudovogo Krasnogo Zna-
meni instituta nefiti i khimii im. M. Azizbekova (for Raaben, Pletnev).
2. Zamestitel' direktor Vsesoyuznogo nauchno-issledovatel'skogo
instituta gazovoy promyshlennosti (for Raaben).
(Gas, Natural)
(Gas industry--Equipment and supplies)

GRISHIN, L.V.; NAZAROV, B.G.; KHEL'TSEV, N.V.; KUZNETSOV, D.A.; FURMER, I.E.

Determining the oil content in high-pressure gas. Gaz. prom. 9 no.9:
49-50 '64. (MIRA 17:10)

SOKOLOV, Vasilii Andreyevich; TOROCHESNIKOV, Nikolay Semenovich;
KEL'TSEV, Nikolay Vladimirovich; LEVINA, Ye.S., ved. red.

[Molecular screens and their application] Molekuliarnye
sita i ikh primeneniye. Moskva, Izd-vo "Khimiia," 1964.
155 p. (MIRA 17:7)

KEL'TSEV, N.V.

Foreign technology. Gaz. prom. 8 no.9:52-55 S '63.

(MIRA 17:8)

KEL'TSEV, N.V.

Kinetics of the desorption of water vapors and carbon dioxide
from zeolites in a vacuum. Gaz. prom. 9 no.4:51-54 '64.
(MIRA 17:8)

KEL'TSEV, N.V.; MYAKLNEVSKOV, V.I.; TORCHESNIKOV, N.S.

Use of fine-porous adsorbents for separating the acetylenic
hydrocarbons. Khim. prom. 40 no.11:813-817 N '64
(MIRA 18:2)

L 1596-66 EWT(m)/T

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BOOK EXPLOITATION

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661.183: 66.071.7

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B+1

Sokolov, Vasilii Andreyevich; Torochesnikov, Nikolay Semenovich; Kel'taev, Nikolay Vladimirovich

Molecular sieves and their use (Molekulyarnyye sita i ikh primeneniye) Moscow, Izd-vo "Khimiya", 1964. 0155p. illus., biblio. 2,300 copies printed.

TOPIC TAGS: petrochemistry, chemical separation, hydrocarbon, analytic chemistry, molecular sieve, zeolite, crystal

PURPOSE AND COVERAGE: The book is a presentation both on the properties and application of molecular sieves in purification and separation of gaseous and liquid mixtures. The structures of natural and artificial zeolites used as molecular sieves are described. Included are also methods for their practical use in various branches of technology for drying, purification and separation of hydrocarbons. Research results on membranes and films made from some materials and used in capacity of molecular sieves are presented. The book is intended for engineers and technicians in oil, gas and petrochemical industry.

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SUB CODE: NP, GC

SUBMITTED: 11Mar64

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OTHER: 069

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KEL'TSEV, N.V.; TOROCHESNIKOV, N.S.; SHUMYATSKIY, Yu.I.

Using synthetic zeolites for separating lower olefinic hydrocarbons
from lightly concentrated gases. Gaz. delo no.9:25-28 '65. (MIRA 18:9)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskii institut im.
D.I. Mendeleeva.

KEL'TSEV, N.V.; TITOVA, Yu.K.; TOROCHESNIKOV, N.S.

Use of synthetic zeolites in the deep purification of liquefied
gases. Trudy MKHTI no.47:61-68 '64. (MIRA 18:9)

TOROCHESHNIKOV, N.S.; KEL'TSEV, N.V.; SIDOROV, A.I.

Use of synthetic zeolites in the combined drying of and carbon
dioxide removal from air under high pressure. Trudy MEHTI no.47:
68-74 '64. (MIRA 18:9)

KEL'TSEV, V.

Conference on the Problems of Complete Utilization of Natural
Resources of the the Ukhta industrial complex. Gaz. prom. no.3:38
Mr '57. (MIRA 12:3)

(Ukhta--Gas, Natural)

KEL'TSEV, V.

Apparatus for determining the odorant content of natural gas
(from "Amer. Gas J.," no.8 1957). Gaz. prom. no.3:56-57 Mr '58.
(MIRA 11:3)

(Gas, Natural--Analysis)

1ST AND 2ND ORDER										PROCESSES AND PROPERTIES INDEX									
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<p>980. GAS LOSSES IN TRANSPORTATION OVER ASBESTOS CEMENT PIPE LINES. Kel'tsev, V. V. and Tesner, P. A. (Neftyanoe Khoz., 1946, <u>24</u>, (8), 69-71; Chem. Abstr., 1947, <u>41</u>, 3600).</p> <p>In piping natural gas for a distance of 21.1 km. over a pipe line made of standard asbestos-cement pipe of 300 mm. inside diameter, the average loss of gas was equal to 129 cu.m. per 24 hrs. per km. It seems that, with increase in service life, the piping becomes less porous owing to progressive carbonization, i.e., gradual absorp- tion of CO₂ from the air. Absorption of H₂S from the gas may have a similar effect on the pipe material.</p>																			
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KEL'TSEV, V.V.; TESNER, P.A.; L'VOVA, L.A., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskii redaktor

[Carbon-black; its properties, production and use] Sazha - svoistva, proizvodstvo i primeneniye. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1952, 170 p. (MLRA 9:10)
(Carbon-black)